

IN THE CLAIMS

This listing of claims replaces all prior versions, and listings, in this application.

1. (currently amended) A process for preparing a cancer cell-transplanted non-human animal comprising: preparing a cell culture support coated on a surface with a polymer which changes its hydration force in a temperature range of 0-80°C, then cultivating cancer cells on the cell culture support in a temperature region wherein the polymer has weak hydration force, thereafter adjusting the culture solution to a temperature at which the polymer has a stronger hydration force, whereby the cultured cancer cells are detached in a sheet from the cell culture support without being treated with a proteolytic enzyme, and transplanting the detached cancer cells in sheet form to a specified site of [[an]] a non-human animal.

Claim 2 (canceled)

3. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim [[2]] 1, wherein the size of a cancer tissue of the non-human animal is controlled by changing the size of the sheet of cancer cells sheet to be transplanted is prepared in a specified shape of a specified size so that the size and/or shape of the cancer tissue transplanted into the animal is controlled.

Claim 4 (canceled)

5. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein a carrier is placed in intimate contact over the cultured cells at the end of cultivation and the cells are detached intact together with the carrier.

6. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of a transplantable cell line.

7. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are of an untransplantable cell line.
8. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 7, wherein the untransplantable cell line is MGT-40, MGT-90, CS-C9 or CS-C20.
9. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cancer cells are collected from a living tissue.
10. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein no more than 8×10^5 cells are transplanted.
11. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the polymer is poly(N-isopropylacrylamide).
12. (currently amended) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the non-human animal is a nude mouse, a rat, a mouse, a guinea pig, or a rabbit.
13. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim 1.
14. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to ~~an animal before and/or after transplanting cancer cells in the process of preparing~~ a cancer cell-transplanted non-human animal prepared according to claim 1 and selecting a evaluating the effect of the administered test

substance on tumor formation that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.

15. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim [[2]] 3.

16. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to ~~an animal before and/or after transplanting cancer cells in the process of preparing a cancer cell-transplanted non-human animal prepared according to claim [[2]] 3 and selecting a evaluating the effect of the administered test substance on tumor formation that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.~~

Claims 17-20 (canceled)

21. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 1, wherein the cell culture support consists of a homo- and/or co-polymer which changes its hydration force in a temperature range of 0-80°C.

22. (new) A process for preparing a cancer cell-transplanted non-human animal comprising:

- (a) preparing a cell culture support coated on a surface, wherein the cell culture support is comprised of a polymer which shifts from a dehydrated state to a hydrated state in the range of 0-80°C;
- (b) cultivating cancer cells on the cell culture support at a temperature at which the polymer is dehydrated;
- (c) cooling the cell culture support to a temperature at which the polymer is hydrated, whereby a sheet of cancer cells is detached from the cell culture support without being treated with a proteolytic enzyme; and
- (d) transplanting the sheet of cancer cells to a specified site of a non-human animal.

23. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the cell culture support consists of a homo- and/or co-polymer which shifts from a dehydrated state to a hydrated state in the range of 0-80°C.
24. (new) The process for preparing a cancer cell-transplanted non-human animal according to claim 22, wherein the polymer is poly(N-isopropylacrylamide).
25. (currently amended) A cancer cell-transplanted non-human animal prepared by the process according to claim 22.
26. (currently amended) A method of selecting an anti-tumor agent comprising: administering a test substance to a cancer cell-transplanted non-human animal prepared according to claim 22 and selecting a test substance that reduces volume and/or weight of a tumor formed from the sheet of cancer cells.